according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18-Nov-2019 Print date: 18-Nov-2019 Version: 1

Page 1/10

Sanosil S015

$\overline{\bigcirc}$



SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1. Product identifier

Trade name/designation: Sanosil S015

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Disinfectant

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Sanosil Eichtalstrasse 49 8634 Hombrechtikon Switzerland Telephone: +41 55 254 00 54

Telefax: +41 55 254 00 59 E-mail: kundeninfo@sanosil.ch

Website: www.sanosil.ch

1.4. Emergency telephone number

United States of America: Poison control center - national hotline number 1-800-222-1222 Great Britain: National phone number 111 Republic of Ireland: National phone number 01 809 2166 Czech Republic: Toxikologické informační středisko +420 224 919 293, +420 224 915 402 Denmark: Giftlinjen +45 82 12 12 12 France: numéro ORFILA (INRS) : +33 (0)1 45 42 59 59 Italy: 06-3054343 (24h/24h), Centro antiveleni Policlinico Umberto I, Roma Spain: National Emergency Telephone Number: +34 91 562 04 20. The information will be provided in Spanish (24h/365 days). Sweden: +46 112 in case of emergency poisoning and ask for Poison Information both day and night. +46 08-331231 if you have other questions concerning acute poisonings mon-fri 9.00-17.00.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification pro cedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms:



Exclamation mark

H319

Signal word: Warning

hazard statements for health hazards

Causes serious eye irritation.

en / IT / FR / ES / GB / US

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18-Nov-2019 Print date: 18-Nov-2019 Version: 1

Page 2/10

Sanosil S015

Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard information (EU): -

Precautionary statements Prevention		
P273	Avoid release to the environment.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	

Precautionary statements Response

Frecautionaly stat	Frecautionally statements response		
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P337 + P313	If eye irritation persists: Get medical advice/attention.		

2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concen- tration
CAS No.: 7722-84-1 EC No.: 231-765-0	hydrogen peroxide solution % Acute Tox. 4, Ox. Liq. 1, Skin Corr. 1A	> 5 - < 10 Wt %
CAS No.: 7664-38-2 EC No.: 231-633-2	orthophosphoric acid Skin Corr. 1B Danger H314	< 0.1 Wt %
CAS No.: 7440-22-4 EC No.: 231-131-3	silver Aquatic Acute 1, Aquatic Chronic 1 Warning H400-H410 M-factor (acute): 10 M-factor (chronic): 10	< 0.02 Wt %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing. Do not use solvents.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Get immediate medical advice/ attention.

Self-protection of the first aider:

Use personal protection equipment.

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18-Nov-2019 Print date: 18-Nov-2019 Version: 1

Page 3/10

Sanosil S015

4.2. Most important symptoms and effects, both acute and delayed Serious eve damage/eve irritation

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water, Dry extinguishing powder, Carbon dioxide (CO2), alcohol resistant foam

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

No data available

5.3. Advice for firefighters

Special protective equipment for firefighters: Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Keep closed containers cool by spraying water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Avoid contact with skin, eyes and clothes. Provide adequate ventilation. Remove persons to safety. Use personal protection equipment.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection. See section 8.

6.1.2. For emergency responders

Personal protection equipment:

See section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

For containment:

Provide for retaining containers, eg. floor pan without outflow. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Dispose of the residus of the product as hazardous waste (see section 13).

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Losses during use of the product must be collected and disposed of in special containers as special waste.

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18-Nov-2019 Print date: 18-Nov-2019 Version: 1

Page 4/10

Sanosil S015

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

Requirements for storage rooms and vessels:

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

Do not use metal drip pans.

Hints on storage assembly:

Keep away from oxidising agents. Do not store together with strong acids. Do not store with flammable materials.

Storage class: 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	 Iong-term occupational exposure limit value short-term occupational exposure limit value Instantaneous value Monitoring and observation processes Remark
ES	hydrogen peroxide solutio n % CAS No.: 7722-84-1	① 1 ppm (1.4 mg/m³)
VLA (FR)	hydrogen peroxide solutio n % CAS No.: 7722-84-1	 1 ppm (1.5 mg/m³)
WEL (GB)	hydrogen peroxide solutio n % CAS No.: 7722-84-1	 1 ppm (1.4 mg/m³) 2 ppm (2.8 mg/m³)
OSHA (US)	hydrogen peroxide solutio n % CAS No.: 7722-84-1	① 1 ppm (1.4 mg/m³)
NIOSH (US)	hydrogen peroxide solutio n % CAS No.: 7722-84-1	① 1 ppm (1.4 mg/m³)
ACGIH (US)	hydrogen peroxide solutio n % CAS No.: 7722-84-1	① 1 ppm (1.4 mg/m³)
ES	orthophosphoric acid CAS No.: 7664-38-2	 1 mg/m³ 2 mg/m³ VLI, s
IOELV (EU)	orthophosphoric acid CAS No.: 7664-38-2	 1 mg/m³ 2 mg/m³

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18-Nov-2019 Print date: 18-Nov-2019 Version: 1



Sanosil S015





Limit value type (country	Substance name	Iong-term occupational exposure limit value A short term occupational exposure limit value	
of origin)		 Instantaneous value 	
		 Monitoring and observation processes 	
		5 Remark	
VRI (FR)	orthophosphoric acid	① 0.2 ppm (1 mg/m³)	
	CAS No.: 7664-38-2	② 0.5 ppm (2 mg/m ³)	
		(5) réglementaire indicative	
WEL (GB)	orthophosphoric acid	① 1 mg/m ³	
	CAS No.: 7664-38-2	2 mg/m ³	
OSHA (US)	orthophosphoric acid CAS No.: 7664-38-2	① 1 mg/m ³	
NIOSH (US)	orthophosphoric acid	① 1 mg/m ³	
	CAS No.: 7664-38-2	② 3 mg/m ³	
ACGIH (US)	orthophosphoric acid	① 1 mg/m³	
	CAS No.: 7664-38-2	② 3 mg/m ³	
IOELV (EU)	silver	① 0.01 mg/m³	
	CAS No.: 7440-22-4	(5) (Silver compounds, soluble, calculated as Ag)	
VRI (FR)	silver	1 0.01 mg/m ³	
	CAS No.: 7440-22-4	⑤ (réglementaire indicative) Argent composés, soluble, expri mé en Ag	
WEL (GB)	silver CAS No.: 7440-22-4	① 0.01 mg/m ³	
		(5) (compounds, soluble; calculated as Ag)	
NIOSH (US)	silver	1 0.01 mg/m ³	
	CAS No.: 7440-22-4	(5) compounds, soluble; calculated as Ag	
IOELV (EU)	silver CAS No.: 7440-22-4	① 0.1 mg/m ³	
		(metal)	
WEL (GB)	silver CAS No.: 7440-22-4	① 0.1 mg/m ³	
		(metal)	
VRI (FR)	silver CAS No.: 7440-22-4	(1) 0.1 mg/m ³	
ACGIH (US)	silver	(réglementaire indicative; métal)	
ACGIN (US)	CAS No.: 7440-22-4	 0.01 mg/m³ compounds, soluble 	
OSHA (US)	silver	① 0.01 mg/m ³	
0317 (03)	CAS No.: 7440-22-4		
ES	silver CAS No.: 7440-22-4	① 0.1 mg/m ³	
ES	silver	① 0.1 mg/m ³	
	CAS No.: 7440-22-4	⑤ (metal, fracción inhalable)	
NIOSH (US)	silver CAS No.: 7440-22-4	① 0.01 mg/m ³	
ACGIH (US)	silver CAS No.: 7440-22-4	① 0.1 mg/m ³	

8.1.2. Biological limit values No data available

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18-Nov-2019 Print date: 18-Nov-2019 Version: 1

Page 6/10

Sanosil S015

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection DIN EN 166

Skin protection:

Use protective gloves in accordance to EN 374. The following material is suitable: NBR

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Full-/half-/quarter-face masks (DIN EN 136/140): Filter type: NO, B or ABEK-P3

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid Odour: not determined Colour: not determined

Safety relevant basis data

parameter		at °C	Method	Remark
рН	2 - 2.5	20 °C		
Melting point	≈ 0			
Freezing point	not determined			
Initial boiling point and boiling range	> 100 °C			
Decomposition temperature	not determined			
Flash point	not applicable			
Evaporation rate	not determined			
Auto-ignition temperature	not applicable			
Upper/lower flammability or explosive limits	not applicable			
Vapour pressure	23 hPa			
Vapour density	not determined			
Density	1 g/cm ³			
Bulk density	not applicable			
Water solubility	completely miscible			
Partition coefficient: n-octanol/ water	not determined			
Dynamic viscosity	not determined			
Kinematic viscosity	not determined			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No data available

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18-Nov-2019 Print date: 18-Nov-2019 Version: 1

Page 7/10

Sanosil S015

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

combustible substances strong acids and alkalis Oxidising agent, strong Alkaline earth metal Solvent Cotton

10.6. Hazardous decomposition products

Oxygen

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
7722-84-1	hydrogen peroxide solution %	LD ₅₀ oral:
		376 mg/kg (Rat)
		LD ₅₀ dermal:
		3,000 mg/kg (Rat)
		LC ₅₀ Acute inhalation toxicity (vapour):
		2 mg/l 4 h (Rat)
7664-38-2	orthophosphoric acid	LD ₅₀ oral:
		1,530 mg/kg (Rat)
		LD ₅₀ dermal:
		2,740 mg/kg (Rabbit)

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data t

Based on available data, the classification criteria are not met. **Carcinogenicity:**

Based on available data, the classification criteria are not met. **Reproductive toxicity:**

Based on available data, the classification criteria are not met.

STOT-single exposure:

Based on available data, the classification criteria are not met.

STOT-repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

NFECTANTS FOR LIFE

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18-Nov-2019 Print date: 18-Nov-2019 Version: 1



Sanosil S015

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
7722-84-1	hydrogen peroxide solution %	LC₅₀: 16.4 mg/l (Fish)
		LC ₅₀ : 2 mg/l (Daphnia pulex)
		EC ₅₀ : 1.38 mg/l (Alga)
7440-22-4	silver	LC ₅₀ : 0.015 mg/l 2 d (shellfish)
		LC₅₀: 0.00807 mg/l 4 d (fish)
		EC ₅₀ : 0.0092 mg/l 2 d (shellfish)
		EC₅₀: 0.00198 mg/l 3 d (Alga)

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
7440-22-4	silver	No	

12.3. Bioaccumulative potential No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
7722-84-1	hydrogen peroxide solution %	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
7664-38-2	orthophosphoric acid	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
7440-22-4	silver	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product may not be eliminated as municipal solid waste nor allowed to end up in the drainage system. These packs can be delivered packaging-specific to the existing collection points for hazardous waste.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

16 03 03 *	inorganic wastes containing hazardous substances
------------	--

*: Evidence for disposal must be provided.

Remark:

Wastecode according to regulation EU 2014/955

Waste treatment options

Appropriate disposal / Product:

Dispose of used product in its original packaging as special waste.

Appropriate disposal / Package:

Empty packaging can be recycled or eliminated as municipal solid waste.

NFECTANTS FOR LIFE

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18-Nov-2019 Print date: 18-Nov-2019 Version: 1

Page 9/10

RID)

Sanosil S015

SECTION 14: Transport information

Land transport (ADR/ Inland waterway

No dangerous good in sense of these transport regulations.

craft (ADN)

14.1. UN-No.

14.1. UN-No.			
No dangerous good	No dangerous good	No dangerous good	No dangerous good
in sense of these	in sense of these	in sense of these	in sense of these
transport regulations.	transport regulations.	transport regulations.	transport regulations.
		· · · · · · · · · · · · · · · · · · ·	

Sea transport (IMDG)

14.2. UN proper shipping name

| No dangerous good in sense of |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| these transport regulations. | these transport regulations. | these transport regulations. | these transport regulations. |
| | | | |

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

not relevant

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU legislation

Other regulations (EU): Regulation (EU) No. 528/2012 on biocides

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

This is the first version based on the classification according to Regulations (EC) No 1272/2008 and (EU) 2015/830.



Air transport (ICAO-

TI / IATA-DGR)

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18-Nov-2019 Print date: 18-Nov-2019 Version: 1



Sanosil S015

16.2. Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR European agreement concerning the international carriage of dangerous goods by road

CAS Chemical Abstract Service CLP Classification, labelling and Packaging

EC50 Effective Concentration 50%

EN European norm

IATA International Air Transport Association

IMDG-Code International Maritime Dangerous Goods Code

- LC50 Lethal Concentration 50%
- LD50 Lethal Dose 50%

OECD Organization for Economic Cooperation and Development

PBT persistent, bioaccumulative, toxic

PNEC Predicted No Effect Concentration

REACH Registration, Evaluation and Authorization of Chemicals

RID Regulations concerning the international carriage of dangerous goods by rail

SVHC Substance of Very High Concern

UN United Nations

VOC Volatile organic compounds

vPvB very persistent, very bioaccumulative

16.3. Key literature references and sources for data

Security safety data sheet of the ingredients. Inventory of substances of the European Chemical Agency (ECHA). GESTIS database

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification pro cedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements		
H271	May cause fire or explosion; strong oxidiser.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H332	Harmful if inhaled.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

16.6. Training advice

Persons charged with the handling and cleaning of the product must be trained prior to start their work and in regular intervals. They must be informed about the risks using the product and the mesures to take for efficient prevention. This concerns particularly working security, first aid, health and environment protection.

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new madeup material.

FECTANTS FOR LIFE